

Thomas, et al. (9692-000029) Seq. Listing.ST25
SEQUENCE LISTING

<110> Applera Corporation
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Diemer, Karen
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Ladunga, Istvan
Lazareva, Betty
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Rabkin, Steven
Vandergriff, Jody
Doremieux, Olivier

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<170> PatentIn version 3.2

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Leu His Tyr Val Thr Thr Trp Phe Leu Leu Asp Val Ile Ala Ala Leu
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Thomas, et al. (9692-000029) Seq. Listing.ST25

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Ser Leu Phe
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Thomas, et al. (9692-000029) Seq. Listing.ST25
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Ile Met Asn Tyr Leu Lys Thr Trp Phe Val Ile Asp Leu Leu Ser Cys
35 40 45

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35 40 45

Leu Pro Asp Val Ile Asn Ala Phe Glu Asn Val Asp Glu Val Ser Ala
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35 40 45

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35 40 45

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 35 40 45
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 50 55 60
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 35 40 45
 Ala Arg Leu Gly Ser Asp Met Glu Asp Leu Arg Asn Arg Leu Ala Gln
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Thomas, et al. (9692-000029) Seq. Listing.ST25

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Ala Gln Glu Thr Gln Ala Arg Val Ser Lys Glu Leu Gln Ala Ala Gln
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Ala Arg Leu Gly Ser Asp Met Glu Asp Leu Arg Asn Arg Leu Ala Gln
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Tyr Arg Ser Glu Val Gln Ala Met Leu Gly Gly Ser Thr Glu Glu Leu
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Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Thr Arg Leu Ala Gln
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35 40 45

Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Ser Arg Leu Ala Gln
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 35 40 45

Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Ser Arg Leu Val Gln
 50 55 60

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 35 40 45

Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Ser Arg Leu Val Gln
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Thomas, et al. (9692-000029) Seq. Listing.ST25

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35 40 45

Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Ser Arg Leu Val Gln
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35 40 45

Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Gly Arg Leu Val Gln
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Thomas, et al. (9692-000029) Seq. Listing.ST25

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Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Gly Arg Leu Val Gln
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35 40 45

Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Gly Arg Leu Val Gln
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20 25 30

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35 40 45

Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg Gly Arg Leu Val Gln
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35 40 45

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20 25 30

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35 40 45

Glu Glu Ile Gln Lys Glu Leu Glu Asp Leu Arg Ala Asn Met Met Pro
50 55 60

His Ala Asn Lys Val Ser Gly Met Phe Gly Asp Asn Val Gln Lys Leu
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35 40 45

Glu Glu Ile Gln Lys Glu Leu Glu Asp Leu Arg Ala Asn Met Met Pro
50 55 60

His Ala Asn Lys Val Ser Gln Met Phe Gly Asp Asn Val Gln Lys Leu
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Gln Glu His Leu Arg Pro Tyr Ala Thr Asp Leu Gln Ala Gln Ile Asn
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 35 40 45
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 His Ala Asn Lys Val Thr Gln Thr Phe Gly Glu Asn Met Gln Lys Leu
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 35 40 45
 Glu Glu Ile Lys Lys Glu Leu Glu Asp Leu Arg Asp Arg Met Met Pro
 50 55 60
 His Ala Asn Lys Val Thr Gln Thr Phe Gly Glu Asn Met Gln Lys Leu
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 Gln Glu His Leu Lys Pro Tyr Ala Val Asp Leu Gln Asp Gln Ile Asn
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Thomas, et al. (9692-000029) Seq. Listing.ST25

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Thr Asp Val Thr Gln Gln Leu Ser Thr Leu Phe Gln Asp Lys Leu Gly
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Asp Ala Ser Thr Tyr Ala Asp Gly Val His Asn Lys Leu Val Pro Phe
20 25 30

Val Val Gln Leu Ser Gly His Leu Ala Gln Glu Thr Glu Arg Val Lys
35 40 45

Glu Glu Ile Lys Lys Glu Leu Glu Asp Gln Arg Asp Arg Met Met Pro
50 55 60

His Ala Asn Lys Val Thr Gln Thr Phe Gly Glu Asn Met Gln Lys Leu
65 70 75 80

Gln Glu His Leu Lys Pro Tyr Ala Val Asp Leu Gln Asp Gln Ile Asn
85 90 95

Thr Gln Thr Gln Glu Met Lys Leu Gln Leu Thr
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<210> 43
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<212> PRT
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Thr Asp Val Thr Gln Gln Leu Ser Thr Leu Phe Gln Asp Lys Leu Gly
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Asp Ala Ser Thr Tyr Ala Asp Gly Val His Asn Lys Leu Val Pro Phe
20 25 30

Val Val Gln Leu Ser Gly His Leu Ala Lys Glu Thr Glu Arg Val Lys
35 40 45

Glu Glu Ile Lys Lys Glu Leu Glu Asp Leu Arg Asp Arg Met Met Pro
50 55 60

Thomas, et al. (9692-000029) Seq. Listing.ST25

His Ala Asn Lys Val Thr Gln Thr Phe Gly Glu Asn Met Gln Lys Leu
65 70 75 80

Gln Glu His Leu Lys Pro Tyr Ala Val Asp Leu Gln Asp Gln Ile Asn
85 90 95

Thr Gln Thr Gln Glu Met Lys Leu Gln Leu Thr
100 105

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<400> 44

Thr Asp Val Thr Gln Gln Leu Ser Thr Leu Phe Gln Asp Lys Leu Gly
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Asp Ala Ser Thr Tyr Ala Asp Gly Val His Asn Lys Leu Val Pro Phe
20 25 30

Val Val Gln Leu Ser Gly His Leu Ala Lys Glu Thr Glu Arg Val Lys
35 40 45

Glu Glu Ile Lys Lys Glu Leu Glu Asp Leu Arg Asp Arg Met Met Pro
50 55 60

His Ala Asn Lys Val Thr Gln Thr Phe Gly Glu Asn Met Gln Lys Leu
65 70 75 80

Gln Glu His Leu Lys Pro Tyr Ala Val Asp Leu Gln Asp Gln Ile Asn
85 90 95

Thr Gln Thr Gln Glu Met Lys Leu Gln Leu Thr
100 105

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<211> 85
<212> PRT
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Ala Glu Ile Thr Lys Gln Leu Asn Thr Leu Leu Gln Ser Asn Leu Gln
1 5 10 15

Ser Ala Asn Ser Tyr Ala Glu Glu Leu Gln Arg Arg Leu Val Pro Phe
20 25 30

Thomas, et al. (9692-000029) Seq. Listing.ST25

Ala Thr Glu Leu Gln Ala Gln Leu Val Gln Asp Ser Gln Arg Leu Lys
35 40 45

Lys Gln Ile Gln Gln Glu Leu Ala Glu Leu Gln Ala Lys Leu Ala Pro
50 55 60

Tyr Ala Asp Glu Val His Gln Gln Ile Gly Thr Asn Ile Arg Glu Leu
65 70 75 80

Gln Ala Lys Leu Ser
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<211> 85
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Ser Glu Leu Thr Gln Gln Leu Asn Thr Leu Phe Gln Asp Lys Leu Gly
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Glu Val Asn Thr Tyr Thr Glu Asp Leu Gln Lys Lys Leu Val Pro Phe
20 25 30

Ala Thr Glu Leu His Glu Arg Leu Thr Lys Asp Ser Glu Lys Leu Lys
35 40 45

Glu Glu Ile Arg Arg Glu Leu Glu Glu Leu Arg Ala Arg Leu Leu Pro
50 55 60

His Ala Thr Glu Val Ser Gln Lys Ile Gly Asp Asn Val Arg Glu Leu
65 70 75 80

Gln Gln Arg Leu Gly
85

<210> 47
<211> 85
<212> PRT
<213> Exemplary Protein Sequence

<400> 47

Ser Glu Leu Thr Gln Gln Leu Asn Ala Leu Phe Gln Asp Lys Leu Gly
1 5 10 15

Glu Val Asn Thr Tyr Ala Gly Asp Leu Gln Lys Lys Leu Val Pro Phe
20 25 30

Ala Thr Glu Leu His Glu Arg Leu Ala Lys Asp Ser Lys Lys Leu Lys
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35 Thomas, et al. (9692-000029) Seq. Listing.ST25
40 45

Glu Glu Ile Arg Lys Glu Leu Glu Glu Val Arg Ala Arg Leu Leu Pro
50 55 60

His Ala Asn Glu Val Ser Gln Lys Ile Gly Glu Asn Val Arg Glu Leu
65 70 75 80

Gln Gln Arg Leu Glu
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Ser Glu Leu Thr Gln Gln Leu Asn Ala Leu Phe Gln Asp Lys Leu Gly
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Glu Val Asn Thr Tyr Ala Gly Asp Leu Gln Lys Lys Leu Val Pro Phe
20 25 30

Ala Thr Glu Leu His Glu Arg Leu Ala Lys Asp Ser Glu Lys Leu Lys
35 40 45

Glu Glu Ile Arg Lys Glu Leu Glu Glu Val Arg Ala Arg Leu Leu Pro
50 55 60

His Ala Asn Glu Val Ser Gln Lys Ile Gly Glu Asn Val Arg Glu Leu
65 70 75 80

Gln Gln Arg Leu Glu
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<211> 85
<212> PRT
<213> Exemplary Protein Sequence

<400> 49

Ser Glu Leu Thr Gln Gln Leu Asn Ala Leu Phe Gln Asp Lys Leu Gly
1 5 10 15

Glu Val Asn Thr Tyr Ala Gly Asp Leu Gln Lys Lys Leu Val Pro Phe
20 25 30

Ala Thr Glu Leu His Glu Arg Leu Ala Lys Asp Ser Glu Lys Leu Lys
35 40 45

Thomas, et al. (9692-000029) Seq. Listing.ST25

Glu Glu Ile Gly Lys Glu Leu Glu Glu Leu Arg Ala Arg Leu Leu Pro
 50 55 60

His Ala Asn Glu Val Ser Gln Lys Ile Gly Asp Asn Leu Arg Glu Leu
 65 70 75 80

Gln Gln Arg Leu Glu
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Gln Pro Ser Val Phe Ile Arg Thr Arg
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<210> 52
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<400> 52

Gln Pro Ser Leu Phe Val Arg Thr Phe
 1 5

<210> 53
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<400> 53

Thomas, et al. (9692-000029) Seq. Listing.ST25

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<400> 54

Arg Pro Ser Ala Tyr Ile Arg Glu Met
1 5

<210> 55
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<400> 55

Arg Pro Ser Ile Phe Val Arg Glu Ser
1 5

<210> 56
<211> 9
<212> PRT
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<400> 56

Arg Pro Ser Leu Phe Val Arg Glu Trp
1 5

<210> 57
<211> 9
<212> PRT
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<400> 57

Arg Gly Ser Leu Phe Ile Trp Lys Ala
1 5

<210> 58
<211> 9
<212> PRT
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<400> 58

Arg Gly Val Val Phe Ile Trp Lys Arg
1 5

<210> 59
<211> 9
<212> PRT

<213> Exemplary Protein Sequence

<400> 59

Arg Gly Pro Leu Phe Val Trp Lys Phe
1 5

<210> 60

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<223> xaa can be any naturally occurring amino acid

<400> 60

Arg Trp Lys Val Xaa Val Trp Asp Gln
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<210> 61

<211> 9

<212> PRT

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<400> 61

Arg Trp Tyr Ala Tyr Ile Trp Asp Met
1 5

<210> 62

<211> 9

<212> PRT

<213> Exemplary Protein Sequence

<400> 62

Arg Trp Glu Ile Phe Tyr Trp Asp Ser
1 5

<210> 63

<211> 9

<212> PRT

<213> Exemplary Protein Sequence

<400> 63

Arg Trp Ile Leu Phe Val Trp Asp Trp
1 5